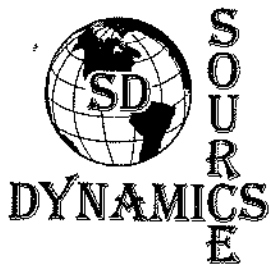


# **EPA Registration Jacket 82542-11**

# ISB'S Front-end PRIA Completeness Screen

Draft 3: 10/25/07

EPA Receipt Date: <i>12/3/08</i>		EPA Reg. Number: <i>82542-RR</i>		
	Check List Item	Yes	No	N/A
1	Has the <b>PRIA Fee been Paid</b> ; is a copy of the check or Pay.gov receipt included in the Submission Package?	X		
2	Is an <b>Application Form</b> (EPA Form 8570-1) Included in the Submission Package, is it completely filled out and signed including package type?	X		
3	Is a <b>Confidential Statement of Formula</b> (EPA Form 8570-29) Included in the Submission Package, is it completely filled out and signed (boxes 1-21)?	X		
4	Is a <b>Formulator's Exemption Statement</b> (EPA Form 8570-27) Included in the Submission Package?	X		
5	Is a <b>Certification with Respect to Citation of Data</b> (EPA Form 8570-34) Included in the Submission Package?		X	
6	Is a <b>Data Matrix</b> (EPA Form 8570-35) Included in the Submission Package?		X	
7	Is a <b>Label</b> Included in the Submission Package?	X		
8	Are <b>Data</b> Included in the Submission Package?		X	
9	Is the Submission an Amendment?		X	



June 6, 2009

Document Processing Desk  
Office of Pesticide Programs (P7504C)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: John Hebert (PM 7), Registration Division (7505P)

Dear Mr. Hebert:

Subject: Abamectin 0.15EC Ag Insecticide/Miticide: *82542-11*  
EPA Reg. No. ~~85242~~-11: Final Printed Label  
*Wiring it*

Thank you for your Notice of Pesticide Registration dated March 17, 2009. Please find enclosed a final printed label and Form 8570-1.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastian@solerasd.com

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

Fax 480.502.9268



United States  
Environmental Protection Agency  
Washington, DC 20460

☒

Registration  
Amendment  
Other

OPP Identifier Number

## Application for Pesticide - Section I

1. Company/Product Number 82542-11	2. EPA Product Manager John Hebert	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Abamectin 0.15EC Aq Insecticide/Miticide	PM# 7	
5. Name and Address of Applicant (Include ZIP Code)  Source Dynamics LLC 10039 E. Troon North Drive, Scottsdale, AZ 85262  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(ii), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

## Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated 3/17/09
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page[s] if necessary. (For section I and Section II.)

Submission of final printed label

## Section - III

1. Material This Product Will Be Packaged In:			
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input checked="" type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt. No. per container	If "Yes" Package wgt. No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input checked="" type="checkbox"/> Container	4. Size(s) Retail Container 1 gallon	5. Location of Label Directions <input type="checkbox"/> On Label <input checked="" type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input checked="" type="checkbox"/> Other _____	

## Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)			
Name Rufus Bastian	Title President	Telephone No. (Include Area Code) 480-502-9289	
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.			6. Date Application Received (Stamped) 
2. Signature 	3. Title President		
4. Typed Name Rufus Bastian	5. Date June 6, 2009		

**RESTRICTED USE PESTICIDE**

Toxic to Fish, Mammals and Aquatic Organisms. For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

**ABAMECTIN 0.15EC Ag Insecticide/Miticide**

**NOT REVIEWED**  
In Accordance with PR Notice 82-2  
Based on Draft Labeling Dated

MAR 17 2009

**ACTIVE INGREDIENT:**

Abamectin.....1.9% w/w

**OTHER**

**INGREDIENTS**.....98.1% w/w

**TOTAL**.....100.0%

Abamectin 0.15EC Ag Insecticide/Miticide contains 0.15 lb of active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**AVISO**

See next page for First Aid, Precautionary Statements and Directions for Use.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand this label, find someone to explain it to you in detail.)



**Manufactured for:**

**Source Dynamics LLC**  
10039 E. Troon North Drive  
Scottsdale, AZ 85262  
Telephone (480)-502-9289

**EPA Reg. No.:** 82542-11  
**EPA Est. No.:**  
**Net Contents:** 1 gallon

<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

#### **HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact Chemtrec at 1-800-424-9300 for emergency medical treatment information.

#### **NOTE TO PHYSICIAN**

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING**

Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through skin or if swallowed. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category E on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

Long-sleeved shirt and long pants

Socks and shoes.

Chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or Viton).

Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your country agriculture commissioner to determine use limitations that apply in your area.

#### **PHYSICAL OR CHEMICAL HAZARDS**

Combustible: Do not use or store near heat or open flame.

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **IMPORTANT – READ BEFORE USE**

Read the entire Directions for Use, Limited Warranty and Disclaimer before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following warranty disclaimer, inherent risks of use and limitation of remedies.

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.**

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**PPE** required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves – EPA chemical-resistance category E (e.g., barrier laminate, nitrile rubber, neoprene rubber, viton).
- Chemical-resistant shoes and socks.
- Protective eyewear.



#### APPLICATION INFORMATION

Abamectin 0.15EC is an insecticide that will control certain insect pests. The product must be mixed with water and applied to labeled crops according to the specific crop use directions for effective control of these insects. For good mite and insect control, apply Abamectin 0.15EC so that the foliage is thoroughly covered by the spray solution.

**Phytotoxicity:** Abamectin 0.15EC has been tested for phytotoxicity and has been proven to be safe on a variety of crops. Abamectin 0.15EC is also compatible with many commonly used pesticides, crop oils, and nutritional sprays. However, it is impossible to test all crop varieties and combination of spray mixtures under all possible growing conditions. Prior to mixing, users should test the compatibility of Abamectin 0.15EC with any combination product using physical compatibility jar tests. Before applying Abamectin 0.15EC and combination products to large areas of the crop, test small areas for phytotoxicity.

**New York State Restriction:** Do not apply Abamectin 0.15EC by aerial application in New York State.

**Chemigation:** Do not apply this product through any type of irrigation system.

**Spray Drift Precautions for Abamectin 0.15EC Use on Celery, Cotton, Cucurbits, Fruiting Vegetables, Grapes, Hops, Leafy Vegetables, Potatoes, and Strawberries:**

- Do not apply with ground application equipment within 25 ft. or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, potholes, natural ponds, and estuaries, or commercial fish farm ponds.

- All aerial and ground application equipment must be properly calibrated, using appropriate carriers, and maintained. For aerial applications, mount the spray boom on the aircraft in a manner that minimizes drift caused by wing tip vortices. Use the minimum practical boom length but do not exceed 75% of wingspan or rotor diameter.
- Use the largest droplet size consistent with pest control. Minimize the formation of very small droplets by selecting appropriate nozzles, orienting nozzles away from the air stream as much as possible, and avoiding excessive spray boom pressure. Release the spray at the lowest height consistent with pest control and flight safety. Avoid application more than 10 ft. above the crop canopy.
- Make aerial or ground applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to aquatic areas. Do not cultivate within 25 ft. (10 ft. for cotton) of the aquatic area to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore increase the likelihood of spray drifting to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and temperatures that increase with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

**Resistance Management:** Abamectin 0.15EC contains the active ingredient abamectin. There are inherent risks of pests developing resistance to any product; therefore, it is strongly advised that Abamectin 0.15EC be used in a sound resistance management program (including practices such as non-chemical alternatives (beneficial arthropods), rotation of Abamectin 0.15EC with insecticides that have different modes of action, rotation of susceptible and non-susceptible plants, etc.). Once insect or mite-tolerant strains develop, Abamectin 0.15EC will not be effective against labeled pests. In crops that have pests with multiple generations per crop per year, resistance management practices help reduce the risk of resistance development to Abamectin 0.15EC. Additional information is available on implementation of these or other resistance management practices from your local agricultural advisor or company representative.

## CROP USE DIRECTIONS

### ALMONDS AND WALNUTS

Abamectin 0.15EC will control the following pests in almonds and walnuts:

*European red mite*

*Pacific Spider mite*

*Strawberry spider mite*

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>PLUS</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p> <p>For Concentrate Sprays: Minimum of 1 gal/A</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage, and residual spider mite control increases if sprays are made to younger leaves. Time Abamectin 0.15EC applications to occur when spider mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Do not apply by air.</p> <p>Do not apply Abamectin 0.15EC without a horticultural spray oil that is not a dormant oil (but one that is approved for use on almonds and walnuts).</p> <p>Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz/A per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 21 days</p>

<sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.

<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.

**Buffer Zone:** To reduce the risk to aquatic organisms, maintain a 25-yard buffer zone around all water bodies containing aquatic life (streams, ponds, lakes, rivers, springs, irrigation canals containing water year-round, swamps, bogs and marshes).

#### APPLE

Abamectin 0.15EC will control the following pests in almonds and walnuts:

*European red mite*

*McDaniel spider mite*

*Tentiform leafminer*

*Twospotted spider mite*

*White apple leafhopper*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>And add (for best results)</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p> <p>For Concentrate Sprays: Minimum of 1 gal/A</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage.</p>	<p>Do not apply by air.</p> <p>Reduced efficacy and/or residual control may occur if Abamectin 0.15EC is not applied in combination with a horticultural spray oil (not a dormant oil). Follow all directions on the spray oil label or in spray guides. Use caution when applying Abamectin 0.15EC with a horticultural spray oil or injury may occur with certain apple</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Time Abamectin 0.15EC applications to occur when spider mites first appear or when insect thresholds are reached. Repeat applications following the directions in the Restrictions column of this table. <b>Spider Mites:</b> Apply before a threshold of 5 spider mites per leaf is reached. For residual spider mite control with Abamectin 0.15EC, apply in combination with horticultural spray oil (not a dormant oil) to newer leaves of trees. Apply Abamectin 0.15EC for spider mite control from petal fall through 6 weeks following petal fall.</p> <p><b>Tentiform leafminer:</b> Apply onto eggs for control of new hatches and to early sap-feeder stages of first and second-generation tentiform leafminers when locally established thresholds have been reached. Do not apply during bloom.</p> <p><b>White Apple Leafhopper (Not for use west of the Rocky Mountains):</b> Apply Abamectin 0.15EC only to the first generation of white apple leafhoppers, just after petal fall and in combination with horticultural spray oil (not a dormant oil).</p>	<p>varieties (such as russetting on light-skinned Golden Delicious apples). In some cases, phytotoxicity and crop loss has been observed when Abamectin 0.15EC plus a horticultural spray oil was applied less than 14 days before or after a captan application.</p> <p>Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz/A per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 28 days</p>

<sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.

<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.

**Spray Drift Precautions:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:

--Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas

--Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

--Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.

--Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.

--Do not apply during a temperature inversion.

#### AVOCADOS

Abamectin 0.15EC will control the following pests in avocados:

*Avocado thrips (Scirtothrips perseae)*

*Persea Mite (Oligonychus perseae)*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
10 – 20 fl oz/A (Do NOT use less than 10 fl oz of Abamectin 0.15EC /A)	Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground or air application equipment. Although aerial application is permitted, best control of	Do not apply more than 20 fl. oz/A Abamectin 0.15EC per application, and no more than 40 fl oz/A per growing season.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p><b>And add (for best results):</b> a Horticultural Spray Oil that is not a dormant oil</p> <p>Minimum of 1 to 4% v/v (Follow all directions on the spray oil label. Test small areas with oil concentrations greater than 2.0% before making applications to large areas.)</p>	<p>thrips is achieved with ground applications which provide better spray coverage. The user accepts all liability for thrip level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 100 gal or more of water/A by ground and 50 gal of water by air application. [For ground applications where the spray volume is greater than 400 gal/A, use 2.5 fl oz Abamectin 0.15EC per 100 gal of water in combination with 1.0-4.0% of an NR (narrow range) 415 oil.] Control of these pests requires a thorough coverage of the spray solution on the tree foliage.</p> <p>Time Abamectin 0.15EC applications to occur when immature thrips first appear but before 5 or more immature thrips per leaf/fruit are detected. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Make only 2 applications per growing season 30 days or more apart.</p> <p>Preharvest Interval: 14 days</p>



Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Apply Abamectin 0.15EC at 10-15 fl. oz/A for low (1-2 thrips per leaf/fruit) to moderate (3-4 thrips per leaf/fruit). Use the higher rate of 15-20 fl oz/A for severe (more than 5 thrips per leaf/fruit) outbreaks.</p> <p>Apply Abamectin 0.15EC in combination with a 1.0 - 4.0% NR 415 oil in combination with a Horticultural Spray Oil (not a dormant oil) which is approved for use on avocados.</p>	

**CELERIC (Apium graveolens)**

Abamectin 0.15EC will control the following pests in celeriac:

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
16.0 fl oz/A	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage of the crop foliage.</p> <p>Apply only in 20 gal or more of water/A by ground application. Control of this mite requires a thorough coverage of the spray solution on the crop foliage.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply by air.</p> <p>Do not apply more than 16 fl. oz Abamectin 0.15EC per application, and no more than 48 fl oz/A after transplanting.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Time Abamectin 0.15EC applications to occur when mites first appear.</p> <p>Repeat applications following the directions in the Restrictions column of this table.</p> <p>Optimum results are obtained if Abamectin 0.15EC is used in combination with a non-ionic surfactant.</p>	<p>To prevent resistance, make only 2 sequential applications per growing season 7 days or more apart.</p> <p>Preharvest Interval: 7 days</p>

#### CITRUS FRUIT CROP GROUP

Abamectin 0.15EC will control the following pests in citrus (which includes but is not limited to citrus citron, citrus hybrids, citrus species (includes chironja, tangelo, tangor), grapefruit, kumquat, lemon, lime, mandarin (tangerine), sour orange, and sweet orange):

*Asian citrus psylla*

*Broad mite*

*Citrus bud mite*

*Citrus leafminer*

*Citrus rust mite*

*Citrus thrips*

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 1.0 – 2.0 fl oz/100 gal for all insects (except Asian citrus psylla, citrus leafminers and citrus thrips—use the concentrate spray rate)</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage (outside coverage for Asian citrus psylla, citrus</p>	<p>Do not apply by air.</p> <p>Do not apply more than 40 fl oz/A Abamectin 0.15EC per growing season.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Concentrate Sprays<sup>b, c</sup>: 10 – 20 fl oz/A for all listed insects/mites</p> <p><b>And add (for best results) a</b> Horticultural Spray Oil that is not a dormant oil - 0.20% or 1 gal/A (see footnotes for additional rates)<sup>c</sup></p>	<p>leafminer or citrus thrips). The size and number of trees per acre as well as foliage density will determine the gallons of spray required.</p> <p><b>Asian citrus psylla:</b> Applications made in the spring, summer or fall should be directed at newly expanding foliage and will only control adults and nymphs present at the time of application.</p> <p><b>Mites:</b> Applications made in the spring, summer or fall should be made when mites first appear.</p> <p><b>Citrus bud mite:</b> Time application to occur at "bud swell".</p> <p><b>Citrus leafminer:</b> Applications in the spring, summer or fall should be directed at newly expanding foliage.</p> <p><b>Citrus thrips:</b> Correct timing is required. Apply after egg hatch has begun (typically, early to mid-hatch is best) but only the current generation will be controlled.</p>	<p>Do not apply more than 3 applications per growing season 30 days or more apart.</p> <p>To prevent pest resistance to Abamectin 0.15EC, do not apply in citrus nurseries.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 7 days</p>

<sup>a</sup> Dilute Spray Rate is based on a volume of 1,000 gal/A dilute spray.

<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC that would be required in a full cover dilute spray.

<sup>c</sup> For optimum control of **Asian citrus psylla**, **broad mites**, **citrus rust mites** and **citrus leafminers**, apply 150-300 gals spray mix per acre plus a minimum of 3 gal/A of a horticultural oil (not a dormant oil) and apply using ground equipment at 1 to 1.5 miles per hour. For optimum control of **citrus bud mite**, apply Abamectin 0.15EC in a minimum of 500 gal per acre plus a minimum of 2 qts. (0.5%) per acre of a horticultural oil (not a dormant oil). For optimum control of **citrus thrips**, use 100-250 gal per acre spray mix for best coverage of outside foliage.

**Spray Drift Precautions:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:

- Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas
- Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
- Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.
- Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.
- Do not apply during a temperature inversion.

#### **COTTON – WEST OF THE MISSISSIPPI ONLY**

Abamectin 0.15EC will control the following pests in cotton (**West of the Mississippi Only**):

*Carmine spider mites*

*Pacific spider mites*

*Strawberry spider mites*

*Twospotted spider mites*

<b>Rate of Abamectin 0.15EC</b>	<b>Directions for Application</b>	<b>Restrictions</b>
<p>Early season: 4 – 6 fl oz/A</p> <p>Mid-season/Lay-by: 8 – 16 fl oz/A</p>	<p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of mites requires a thorough coverage of the spray solution on the crop foliage.</p> <p><b>Early season:</b> Apply Abamectin 0.15EC when the cotton is no taller than 10 inches. Apply only using ground application equipment. Do not apply less than 4 fl oz Abamectin 0.15EC per acre.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply through any type of irrigation system.</p> <p>Do not apply Abamectin 0.15EC east of the Mississippi River.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p><b>Mid-season and lay-by:</b> Use Abamectin 0.15EC at the specified rates 8 - 16 fl oz/A) depending on the size of the plants and foliage density. Apply using ground application or by air in fixed-wing aircraft or by helicopter. Apply by air in a minimum of 5 gal of water /A.</p> <p>Time Abamectin 0.15EC applications to occur when mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Do not apply more than 32 fl oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not feed foliage to livestock; do not allow livestock to graze treated cotton.</p> <p>Preharvest Interval: 20 days</p>

#### CUCURBITS CROP GROUP

Abamectin 0.15EC will control the following pests in the Cucurbit Crop Group (which includes but is not limited to citron melon, cucumbers, gherkin, edible gourds (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon, cantaloupe, pumpkin, summer squash, winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); and watermelon):

*Spider mites*

*Leafminers*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A	Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best	Refer to the section on Spray Drift Precautions in the Application Information section of this label.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>control of insect pests is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.</p> <p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p> <p>Time Abamectin 0.15EC applications to occur when insects first appear. Use 8 – 12 fl oz/A for low to moderate insect pressure use 16 fl oz/A for heavy insect infestations. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 48 fl. oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart.</p> <p>Preharvest Interval: 7 days</p>

### FRUITING VEGETABLE CROP GROUP

Abamectin 0.15EC will control the following pests in the Fruiting Vegetable Crop Group (which includes but is not limited to tomato; eggplant; peppers (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); and tomatillo):

*Broad mite*

*Colorado potato beetle*

*Liriomyza leafminers*

*Spider mites*

*Thrips palmi*

*Tomato pinworm*

*Tomato russet mite*

*Potato psyllid (peppers only; provides suppression only)*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>8 – 16 fl oz/A (use the 16 fl oz/A rate for tomato pinworm)</p> <p><b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker-type surfactants).</p>	<p>Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 48 fl. oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart.</p> <p>To prevent insect resistance to Abamectin 0.15EC, do not apply to fruiting vegetables grown for transplants.</p>



Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p> <p>Repeat applications following the directions in the Restrictions column of this table.</p> <p><b>Mites and thrips :</b> Apply when insects first appear using 8 fl oz for low to moderate insect populations and 16 fl oz/A for heavy infestations.</p> <p><b>Tomato pinworm:</b> Make application when moth activity is first observed and not later than when larvae emerge. Apply using the 16 fl oz/A rate.</p> <p><b>Colorado potato beetle:</b> Apply 8 fl oz for low to moderate insect populations and 16 fl oz/A for heavy infestations.</p> <p><b>Potato psyllid (Peppers only):</b> Abamectin 0.15EC provides suppression only. Apply when insects first appear. Use 8 – 12 fl oz for low to moderate insect populations and 16 fl oz/A for</p>	<p>Preharvest Interval: 7 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	insect populations and 16 fl oz/A for heavy infestations. Make sequential applications at 10-14 day intervals when heavy egg and nymph populations are found. Use of a spreading or penetration adjuvant or horticultural oil is recommended.	

#### GRAPES

Abamectin 0.15EC will control the following pests in grapes:

*Pacific spider mite*

*Twospotted spider mite*

*Western grapeleaf skeletonizer*

*Willamette spider mite.*

*Western grape leafhopper\**

*Varigated leafhopper\**

\*Abamectin 0.15EC provides knock-down control only of these pests.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A  <b>PLUS</b> a nonionic type surfactant is recommended (not binder or sticker-type surfactants).	Apply Abamectin 0.15EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage. Do not spray alternate rows: apply Abamectin 0.15EC on both sides of the row to ensure maximum coverage of the crop.	Refer to the section on Spray Drift Precautions in the Application Information section of this label.  Do not apply by air.  Do not apply more than 16 fl oz/A per application or more than 32 fl. oz/A Abamectin 0.15EC per growing season.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Do not apply in less than 50 gal of water/A by ground. If electro-static sprayers are used, the volume may be less than 50 gal/A but do not use less than 5 gal of water/A.</p> <p>Always use Abamectin 0.15EC with a nonionic surfactant. This combination improves the wetting of leaves and provides an even coverage of spray. Not all combinations of nonionic surfactants and Abamectin 0.15EC have been tested on every grapes variety or all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's label.</p> <p>Apply when insects first appear using 8 - 12 fl oz/A for low to moderate insect populations and 16 fl oz/A for heavy infestations. Repeat applications following the directions in the Restrictions column of this table.</p> <p><b>Mites:</b> time application to occur when mites are first detected but before motiles exceed 5 per leaf.</p>	<p>Make only 2 applications per growing season. One repeat application may be applied 21 day or more after the first application if needed to maintain control.</p> <p>Do not allow livestock to graze in treated vineyards.</p> <p>Preharvest Interval: 28 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<b>Western grapeleaf skeletonizer:</b> Make application when larvae appear. Best control is achieved if application is made just after egg hatch. <b>Western grape leafhopper, Varigated leafhopper:</b> For knock-down control only, apply when pests first appear.	

#### HERB CROP SUBGROUP (EXCEPT CHIVES)

Abamectin 0.15EC will control the following pests in the Herb Crop Subgroup (except chives) (which includes but is not limited to basil; chamomile; catnip; coriander (leaf); dill weed; lavender; marigold; marjoram (*Oiganum* species); nasturtium; parsley (dried); rosemary; sage; summer and winter savory; tarragon; thyme; and wintergreen):

#### *Liriomyza* leafminers

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A  <b>Note:</b> To improve the wetting of leaves and provide an even coverage of spray of the foliage, use Abamectin 0.15EC inc combination with a wetting agent, such as a nonionic surfactant.	Apply Abamectin 0.15EC using conventional dilute or concentrate ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of leafminers requires a thorough coverage of the spray solution on the upper and lower leaves.  Do not apply in less than 30 gal of water/A by ground.	Do not apply by air.  Make only 2 applications per single cutting.  Do not apply more than 6 applications per cropping season at the 8 fl oz/A rate or more than 3 applications at the 16 fl oz/A rate.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Use the low rate for low to moderate insect pressure and the higher rate for heavy insect pressure. Time application to occur when adult flies are first detected. Repeat applications following the directions in the Restrictions column of this table.</p> <p>Not all combinations of nonionic surfactants and Abamectin 0.15EC have been tested on every herb types and variety or under all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's label.</p>	<p>Repeat applications may be made 7 days or more after the last application.</p> <p>Preharvest Interval: 14 days</p>

#### HOPS (EXCEPT IN CALIFORNIA)

Abamectin 0.15EC will control the following pests in hops (not approved for use in California):

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>8 – 16 fl oz/A</p> <p>Note: Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better</p>	<p>Apply Abamectin 0.15EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of mites requires a thorough coverage of the spray solution on the upper and lower leaves of the crop.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply by air.</p> <p>Make only 2 applications per season.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
insect control is achieved using a combination of Abamectin 0.15EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker-type surfactants).	<p>The size and foliage density of plants will determine the gallons of spray required for thorough coverage. Use the same amount of Abamectin 0.15EC for concentrate or dilute sprays. For plants 6 – 8 feet in height (1/2 trellis growth), apply 8 – 16 fl oz/A of Abamectin 0.15EC in a minimum of 40 gal of water per acre. For plants taller than 6-8 feet, do not use less than 16 fl oz/A in a minimum of 100 gal of water/A.</p> <p>Time application to occur when mites are first detected. One repeat application may be made following the directions in the Restrictions column of this table.</p>	<p>Do not apply more than 32 fl oz/A per growing season.</p> <p>Repeat applications may be made 21 days or more after the last application. To prevent insect resistance, use other miticides with different modes of action before making a repeat application of Abamectin 0.15EC.</p> <p>Do not allow livestock to graze in treated hop yards.</p> <p>Preharvest Interval: 28 days</p>

#### LEAFY VEGETABLE CROP GROUP

Abamectin 0.15EC will control the following pests in the Leafy Vegetable Crop Group (which includes but is not limited to celery, lettuce (head and leaf), amaranth (Chinese spinach), garden cress, upland cress, dandelion, endive, fennel, parsley, radicchio, rhubarb, spinach, and Swiss chard):

*Carmine spider mite*  
*Liriomyza leafminers*  
*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>8 – 16 fl oz/A</p> <p><b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker-type surfactants).</p>	<p>Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.</p> <p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p> <p>Apply Abamectin 0.15EC at 8 – 12 fl oz/A for low to moderate insect populations and at 16 fl oz/A for heavy infestations. Make repeat applications if needed to maintain control according to the Restrictions column of this table.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 48 fl oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart. To prevent insect resistance to Abamectin 0.15EC, do not apply to leafy vegetables grown for transplants.</p> <p>Preharvest Interval: 7 days</p>



Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<b>Mites:</b> Apply when insects first appear. <b>Leafminers:</b> Time application to occur when adult flies are first detected.	

#### MINT (PEPPERMINT AND SPEARMINT)

Abamectin 0.15EC will control the following pests in peppermint and spearmint:

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 12 fl oz/A  <b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and either a nonionic surfactant or organosilicone-based surfactant at the manufacturer's recommended use rates.	<p>Apply Abamectin 0.15EC using ground or air application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.</p> <p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p>	<p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 12 fl oz/A Abamectin 0.15EC per application or more than 36 fl oz/A per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart. Do not apply more than 3 applications per season.</p> <p>Do not allow livestock to graze or feed treated foliage to livestock.</p> <p>Preharvest Interval: 28 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	Time applications to occur when insects first appear. Make repeat applications if needed to maintain control according to the Restrictions column of this table.	

#### PEARS (INCLUDING ORIENTAL PEARS)

Abamectin 0.15EC will control the following pests in pears and Oriental pears:

*European red mite*

*McDaniel spider mite*

*Pear psylla*

*Pear rust mite*

*Twospotted spider mite*

*Yellow mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>And add (for best results)</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage.</p>	<p>Do not apply by air.</p> <p><b>Reduced efficacy and/or residual control</b> may occur if Abamectin 0.15EC is not applied with a horticultural spray oil (not a dormant oil). Follow all directions on the spray oil label or spray guides. In some cases, phytotoxicity and crop loss has been observed when Abamectin 0.15EC plus a</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
For Concentrate Sprays: Minimum of 1 gal/A	Time Abamectin 0.15EC applications to occur when spider mites first appear or when insect thresholds are reached. Repeat applications following the directions in the Restrictions column of this table.	horticultural spray oil was applied in less than 14 days before or after a captan application. Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz per growing season. Make only 2 applications per growing season 21 days or more apart. Do not allow livestock to graze in treated orchards. Preharvest interval: 28 days
<p><sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.</p> <p><sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.</p> <p><b>Spray Drift Precautions:</b> Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:</p> <ul style="list-style-type: none"> <li>• Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas</li> <li>• Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.</li> <li>• Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.</li> <li>• Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.</li> <li>• Do not apply during a temperature inversion.</li> </ul>		

## PLUMS AND PRUNES

Abamectin 0.15EC will control the following pests in plums and prunes:

*European red mite*

*Pacific spider mite*

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>PLUS</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p> <p>For Concentrate Sprays: Minimum of 1 gal/A</p> <p><b>OR</b></p> <p>Nonionic surfactant (at the manufacturer's recommended label rate).</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage.</p> <p>Always use Abamectin 0.15EC with either a nonionic surfactant or a horticultural spray oil (not a dormant oil). The combination of Abamectin 0.15EC and the nonionic surfactant helps to provide an even coverage of spray on the foliage and to improve the wetting and penetration of leaves for better insect control. Not all combinations of</p>	<p>Do not apply by air.</p> <p>Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 21 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>nonionic surfactants and Abamectin 0.15EC have been tested on every plum/prune variety or under all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's label.</p> <p>Efficacy may be improved with a combination of Abamectin 0.15EC and a horticultural spray oil (not a dormant oil). However, the chances of phytotoxicity to fruit and foliage increase with this combination. Apply at the specified rates in this table.</p> <p>Time Abamectin 0.15EC applications to occur when mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p>	
<p><sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.</p>		
<p><sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.</p>		
<p><b>Spray Drift Precautions:</b> Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:</p> <ul style="list-style-type: none"> <li>• Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas</li> </ul>		

- Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
- Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.
- Do not apply within 100 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.
- Do not apply during a temperature inversion.

### POTATOES

Abamectin 0.15EC will control the following pests in potatoes:

*Colorado potato beetle*

*Liriomyza leafminers*

*Spider mites*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A <b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and either a nonionic surfactant or organosilicone-based surfactant at the manufacturer's recommended use rates.	Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.	Refer to the section on Spray Drift Precautions in the Application Information section of this label.  Do not apply Abamectin 0.15EC by air in the State of New York.  Do not apply more than 32 fl oz/A Abamectin 0.15EC to control spider mites, more than 48 fl oz/A to control Colorado potato beetle, or more than 48 fl oz/A to control leafminers.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures). Use of Abamectin 0.15EC in combination with a sticker or binder type product such as Bravo® Weather Stik® may reduce control of insects and spider mites.</p> <p>Apply Abamectin 0.15EC at 8 – 12 fl oz/A for low to moderate insect populations and at 16 fl oz/A for heavy infestations. Make repeat applications if needed to maintain control according to the Restrictions column of this table.</p> <p><b>Spider mites:</b> Time applications to occur when insects are first detected.</p> <p><b>Colorado potato beetle:</b> Apply Abamectin 0.15EC when about 50% of the egg masses have hatched and the larvae or present. When 2 applications are required, do not make the second application to the same Colorado potato beetle generation.</p> <p><b>Liriomyza leafminers:</b> Time application to occur when adult flies are first detected.</p>	<p>Make only 2 sequential applications 7 days or more apart.</p> <p>Do not allow livestock to graze or feed treated foliage to livestock.</p> <p>Preharvest Interval: 14 days</p>



## STRAWBERRIES

Abamectin 0.15EC will control the following pests in strawberries:

*Strawberry spider mite*

*Twospotted spider mite.*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>16 fl oz/A</p> <p><b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and a nonionic surfactant at the manufacturer's recommended use rate.</p>	<p>Apply Abamectin 0.15EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites requires a thorough coverage of the spray solution on the crop foliage. Apply Abamectin 0.15EC to the tops and undersides of the leaves.</p> <p>Do not apply in less than 50 gal of water/A by ground. If electro-static sprayers are used, the volume may be less than 50 gal/A but do not use less than 10 gal of water/A.</p> <p>Apply Abamectin 0.15EC when mites are first detected. A second repeat application may be made 7 – 10 days later. This sequence of two applications may be repeated if needed but follow the directions in the Restrictions column of this table.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply by air.</p> <p>Do not apply more than 16 fl oz/A per application or more than 64 fl oz/A Abamectin 0.15EC per growing season.</p> <p>After the first 2 applications, wait 21 day or more before making additional applications if needed to maintain control.</p> <p>To prevent insect resistance to Abamectin 0.15EC, do not apply in strawberry nurseries.</p> <p>Preharvest Interval: 3 days</p>

#### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

##### **Pesticide Storage**

Store in a tightly closed container in a cool, dry place.

##### **Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

##### **Container Disposal**

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by State or local authorities.

#### **WARRANTY STATEMENT IMPORTANT NOTICE**

Seller warrants that this product conforms to the chemical description and is reasonably fit for purposes stated on the label when used in accordance with the directions and instructions under normal conditions of use; **but to the extent consistent with applicable law neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.**

**Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Source Dynamics LLC or the seller. All such risks shall be assumed by buyer.

**Terms and Conditions of Use**

If terms of the Limited Warranty & Disclaimer and Inherent Risks of Use are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer and Inherent Risks of Use.

# Material to be added to an e-Jacket/Jacket

Reg. No. 82542-11

Description: \_\_\_\_\_

1. ☐ Placement within the e-Jacket/jacket:
- ☒ Default: (chronological, top = newest)
  - ☐ File Location: (PDF page number, i.e., "before page 45")
- \_\_\_\_\_
- \_\_\_\_\_

2. ☐ Send to Data Extraction contractors this material:

- ☒ Newly stamped accepted label
- ☐ Notification
- ☐ New CSF
- ☐ Other: \_\_\_\_\_

3. Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).

Reviewer's Name: Autumn Metzger

Phone: \_\_\_\_\_ Division: IRB

Date: \_\_\_\_\_



United States  
**Environmental Protection Agency**  
 Office of Pesticide Programs (7505C)  
 Washington, DC 20460

# **Notice of Supplemental Distribution of a Registered Pesticide Product**

## **Instructions**

After a registrant has obtained final registration for the basic product, the registrant may then supplementally distribute his/her product. One form must be submitted for each distributor product and must be signed by the distributor involved. The basic registration number and the distributor company number must be shown.

If a registrant has a potential distributor who does not have a company number assigned, she/he should have the distributor apply, on letterhead stationery, to the Registration Division to have a number assigned prior to submitting this form to the agency.

This Notice of Supplemental Distribution must be submitted by the basic registrant. The completed form must have the concurrence and signature of both the registrant and the distributor.

EPA Registration Number of Product  
 82542-11

Distributor Company Number  
 84237

## **Note: Do not submit distributor product labels**

Name of Registered Product (basic product name accepted by EPA)  
 Abamectin 0.15 EC Ag Insecticide/Miticide

Distributor Product Name  
 Solera Abamectin 0.15 EC Ag Insecticide/Miticide

Name and Address of Distributor (Type; include ZIP code)

Solera ATO, LLC  
 7364 E. Red Hawk St.  
 Mesa, AZ. 85207

## **Read All Conditions Before Signing**

1. The distributor product must have the same composition as the basic product.
2. The distributor product must be manufactured and packaged by the same person who manufactures and packages the registered basic product.
3. The labeling for the distributor product must bear the same claims as the basic product, provided, however, that specific claims may be deleted if by doing so, no other changes to the label are necessary.
4. The product must remain in the manufacturer's unbroken container.
5. The label must bear the EPA registration number of the basic product, followed by a hyphen and the distributor's company number.
6. Distributor product labels must bear the name and address of the distributor qualified by such terms as "packed for...", "distributed by..."; or "sold by..." to show that the name is not that of the manufacturer.
7. All conditions of the basic registration apply equally to distributor products. It is the responsibility of the basic registrant to see that all distributor labeling is kept in compliance with requirements placed on the basic product.

## **Distributor**

We intend to market our product under the Distributor Product Name specified above, subject to the conditions specified on this Notice.

Signature and Title of Distributor

Vaso Stojic

PRESIDENT

Date

04/16/2009

## **Registrant**

I agree that the distributor named above may distribute and sell the Distributor Product specified above, subject to the conditions specified on this Notice.

Signature and Title of Registrant

Rufus Bastian

President

Date

04 April, 2009



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

82542-11

Date of Issuance:

MAR 17 2009

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Abamectin .15EC Ag  
Insecticide/ Miteicide

Name and Address of Registrant (include ZIP Code):

Source Dynamics  
10039 E. Troon North Drive  
Scottsdale, AZ 85262

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product when the Agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment: Revise the EPA Registration Number to read, "EPA Reg. No. 82542-11."

Signature of Approving Official:

John Hebert, Product Manager  
Insecticide-Rodenticide Branch, Registration Division (7505P)

Date:

MAR 17 2009

Page 2

EPA Reg. No. 82542-11

3. Storage stability (830.6317) and corrosion characteristics (830.6320) data must be submitted within 18 months from the date of this registration notice.

4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

John Hebert  
Product Manager  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure

**RESTRICTED USE PESTICIDE**

Toxic to Fish, Mammals and Aquatic Organisms

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification.

**ABAMECTIN 0.15EC Ag Insecticide/Miticide**

**ACTIVE INGREDIENT:**

Abamectin.....1.9% w/w

**OTHER**

**INGREDIENTS**.....98.1% w/w

**TOTAL**.....100.0%

Abamectin 0.15EC Ag Insecticide/Miticide contains 0.15 lb of active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING**

**AVISO**

See next page for First Aid, Precautionary Statements and Directions for Use.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand this label, find someone to explain it to you in detail.)

EPA Reg. No. 82542-

EPA Est. No.

Net Contents: xx fluid ounces

Source Dynamics LLC  
10039 E. Troon North Drive  
Scottsdale, AZ 85262  
telephone 480-502-9289

**ACCEPTED**  
**With COMMENTS**  
**In EPA Letter Dated:**

MAR 17 2009

Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:

82542-11



<b>FIRST AID</b>	
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

#### **HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact Chemtrec at 1-800-424-9300 for emergency medical treatment information.

#### **NOTE TO PHYSICIAN**

Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Toxicity following accidental ingestion of this product can be minimized by early administration of chemical adsorbents (e.g., activated charcoal).

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) as indicated by clinical signs, symptoms, and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic abamectin exposure.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING**

Causes substantial but temporary eye injury. Do not get in eyes. Harmful if absorbed through skin or if swallowed. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category E on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

Long-sleeved shirt and long pants

Socks and shoes.

Chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber or Viton).

Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and wildlife. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from target areas. Do not contaminate water when disposing of equipment wash water or rinsate.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

Use of this product may pose a risk to threatened and endangered species of fish, amphibians, crustaceans (including fresh water shrimp), and insects. All use of this product in the state of California should comply with the recommendations of the California Endangered Species Project. Before using this product in California, consult with your country agriculture commissioner to determine use limitations that apply in your area.

#### **PHYSICAL OR CHEMICAL HAZARDS**

Combustible: Do not use or store near heat or open flame.

#### **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### **IMPORTANT – READ BEFORE USE**

Read the entire Directions for Use, Limited Warranty and Disclaimer before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following warranty disclaimer, inherent risks of use and limitation of remedies.

**FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT CONTROL, AND/OR ILLEGAL RESIDUES.**

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short-sleeved shirt and short pants.
- Chemical-resistant gloves – EPA chemical-resistance category E (e.g., barrier laminate, nitrile rubber, neoprene rubber, viton).
- Chemical-resistant shoes and socks.
- Protective eyewear.

#### APPLICATION INFORMATION

Abamectin 0.15EC is an insecticide that will control certain insect pests. The product must be mixed with water and applied to labeled crops according to the specific crop use directions for effective control of these insects. For good mite and insect control, apply Abamectin 0.15EC so that the foliage is thoroughly covered by the spray solution.

**Phytotoxicity:** Abamectin 0.15EC has been tested for phytotoxicity and has been proven to be safe on a variety of crops. Abamectin 0.15EC is also compatible with many commonly used pesticides, crop oils, and nutritional sprays. However, it is impossible to test all crop varieties and combination of spray mixtures under all possible growing conditions. Prior to mixing, users should test the compatibility of Abamectin 0.15EC with any combination product using physical compatibility jar tests. Before applying Abamectin 0.15EC and combination products to large areas of the crop, test small areas for phytotoxicity.

**New York State Restriction:** Do not apply Abamectin 0.15EC by aerial application in New York State.

**Chemigation:** Do not apply this product through any type of irrigation system.

**Spray Drift Precautions for Abamectin 0.15EC Use on Celeriac, Cotton, Cucurbits, Fruiting Vegetables, Grapes, Hops, Leafy Vegetables, Potatoes, and Strawberries:**

- Do not apply with ground application equipment within 25 ft. or with aircraft within 150 ft. of lakes, reservoirs, rivers, permanent streams, marshes, potholes, natural ponds, and estuaries, of commercial fish farm ponds.

- All aerial and ground application equipment must be properly calibrated, using appropriate carriers, and maintained. For aerial applications, mount the spray boom on the aircraft in a manner that minimizes drift caused by wing tip vortices. Use the minimum practical boom length but do not exceed 75% of wingspan or rotor diameter.
- Use the largest droplet size consistent with pest control. Minimize the formation of very small droplets by selecting appropriate nozzles, orienting nozzles away from the air stream as much as possible, and avoiding excessive spray boom pressure. Release the spray at the lowest height consistent with pest control and flight safety. Avoid application more than 10 ft. above the crop canopy.
- Make aerial or ground applications when wind velocity favors on-target product deposition (approximately 3 to 10 mph). Do not apply when wind velocity exceeds 15 mph. Avoiding applications when wind direction is toward the aquatic area can reduce risk of exposure to aquatic areas. Do not cultivate within 25 ft. (10 ft. for cotton) of the aquatic area to allow growth of a vegetative filter strip.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore increase the likelihood of spray drifting to aquatic areas. Avoid spraying during conditions of low humidity and/or high temperature.
- Do not make aerial or ground applications during temperature inversions. Inversions are characterized by stable air and temperatures that increase with height above the ground. Mist or fog may indicate the presence of an inversion in humid areas. The applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.

**Resistance Management:** Abamectin 0.15EC contains the active ingredient abamectin. There are inherent risks of pests developing resistance to any product; therefore, it is strongly advised that Abamectin 0.15EC be used in a sound resistance management program (including practices such as non-chemical alternatives (beneficial arthropods), rotation of Abamectin 0.15EC with insecticides that have different modes of action, rotation of susceptible and non-susceptible plants, etc.). Once insect or mite-tolerant strains develop, Abamectin 0.15EC will not be effective against labeled pests. In crops that have pests with multiple generations per crop per year, resistance management practices help reduce the risk of resistance development to Abamectin 0.15EC. Additional information is available on implementation of these or other resistance management practices from your local agricultural advisor or company representative.

## CROP USE DIRECTIONS

### ALMONDS AND WALNUTS

Abamectin 0.15EC will control the following pests in almonds and walnuts:

*European red mite*  
*Pacific Spider mite*  
*Strawberry spider mite*  
*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>PLUS</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p> <p>For Concentrate Sprays: Minimum of 1 gal/A</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage, and residual spider mite control increases if sprays are made to younger leaves.</p> <p>Time Abamectin 0.15EC applications to occur when spider mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Do not apply by air.</p> <p>Do not apply Abamectin 0.15EC without a horticultural spray oil that is not a dormant oil (but one that is approved for use on almonds and walnuts).</p> <p>Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz/A per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 21 days</p>

<sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.

<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.

**Buffer Zone:** To reduce the risk to aquatic organisms, maintain a 25-yard buffer zone around all water bodies containing aquatic life (streams, ponds, lakes, rivers, springs, irrigation canals containing water year-round, swamps, bogs and marshes).

### APPLE

Abamectin 0.15EC will control the following pests in almonds and walnuts:

*European red mite*

*McDaniel spider mite*

*Tentiform leafminer*

*Twospotted spider mite*

*White apple leafhopper*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>And add (for best results)</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p> <p>For Concentrate Sprays: Minimum of 1 gal/A</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage.</p>	<p>Do not apply by air.</p> <p>Reduced efficacy and/or residual control may occur if Abamectin 0.15EC is not applied in combination with a horticultural spray oil (not a dormant oil). Follow all directions on the spray oil label or in spray guides. Use caution when applying Abamectin 0.15EC with a horticultural spray oil or injury may occur with certain apple</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Time Abamectin 0.15EC applications to occur when spider mites first appear or when insect thresholds are reached. Repeat applications following the directions in the Restrictions column of this table. <b>Spider Mites:</b> Apply before a threshold of 5 spider mites per leaf is reached. For residual spider mite control with Abamectin 0.15EC, apply in combination with horticultural spray oil (not a dormant oil) to newer leaves of trees. Apply Abamectin 0.15EC for spider mite control from petal fall through 6 weeks following petal fall.</p> <p><b>Tentiform leafminer:</b> Apply onto eggs for control of new hatches and to early sap-feeder stages of first and second-generation tentiform leafminers when locally established thresholds have been reached. Do not apply during bloom.</p> <p><b>White Apple Leafhopper (Not for use west of the Rocky Mountains):</b> Apply Abamectin 0.15EC only to the first generation of white apple leafhoppers, just after petal fall and in combination with horticultural spray oil (not a dormant oil).</p>	<p>varieties (such as russetting on light-skinned Golden Delicious apples). In some cases, phytotoxicity and crop loss has been observed when Abamectin 0.15EC plus a horticultural spray oil was applied less than 14 days before or after a captan application.</p> <p>Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz/A per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 28 days</p>



<sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.

<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.

**Spray Drift Precautions:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:

--Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas

--Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.

--Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.

--Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.

--Do not apply during a temperature inversion.

#### AVOCADOS

Abamectin 0.15EC will control the following pests in avocados:

*Avocado thrips (Scirtothrips perseae)*

*Persea Mite (Oligonychus perseae)*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
10 -- 20 fl oz/A (Do NOT use less than 10 fl oz of Abamectin 0.15EC /A)	Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground or air application equipment. Although aerial application is permitted, best control of	Do not apply more than 20 fl. oz/A Abamectin 0.15EC per application, and no more than 40 fl oz/A per growing season.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p><b>And add (for best results):</b> a Horticultural Spray Oil that is not a dormant oil</p> <p>Minimum of 1 to 4% v/v (Follow all directions on the spray oil label. Test small areas with oil concentrations greater than 2.0% before making applications to large areas.)</p>	<p>thrips is achieved with ground applications which provide better spray coverage. The user accepts all liability for thrip level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 100 gal or more of water/A by ground and 50 gal of water by air application. [For ground applications where the spray volume is greater than 400 gal/A, use 2.5 fl oz Abamectin 0.15EC per 100 gal of water in combination with 1.0-4.0% of an NR (narrow range) 415 oil.] Control of these pests requires a thorough coverage of the spray solution on the tree foliage.</p> <p>Time Abamectin 0.15EC applications to occur when immature thrips first appear but before 5 or more immature thrips per leaf/fruit are detected. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Make only 2 applications per growing season 30 days or more apart.</p> <p>Preharvest Interval: 14 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Apply Abamectin 0.15EC at 10-15 fl. oz/A for low (1-2 thrips per leaf/fruit) to moderate (3-4 thrips per leaf/fruit). Use the higher rate of 15-20 fl oz/A for severe (more than 5 thrips per leaf/fruit) outbreaks. Apply Abamectin 0.15EC in combination with a 1.0 - 4.0% NR 415 oil in combination with a Horticultural Spray Oil (not a dormant oil) which is approved for use on avocados.</p>	

**CELERIAC (*Apium graveolens*)**

Abamectin 0.15EC will control the following pests in celeriac:

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
16.0 fl oz/A	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage of the crop foliage.</p> <p>Apply only in 20 gal or more of water/A by ground application. Control of this mite requires a thorough coverage of the spray solution on the crop foliage.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply by air.</p> <p>Do not apply more than 16 fl. oz Abamectin 0.15EC per application, and no more than 48 fl oz/A after transplanting.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Time Abamectin 0.15EC applications to occur when mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p> <p>Optimum results are obtained if Abamectin 0.15EC is used in combination with a non-ionic surfactant.</p>	<p>To prevent resistance, make only 2 sequential applications per growing season 7 days or more apart.</p> <p>Preharvest Interval: 7 days</p>

#### CITRUS FRUIT CROP GROUP

Abamectin 0.15EC will control the following pests in citrus (which includes but is not limited to citrus citron, citrus hybrids, citrus species (includes chironja, tangelo, tangor), grapefruit, kumquat, lemon, lime, mandarin (tangerine), sour orange, and sweet orange):

*Asian citrus psylla*

*Broad mite*

*Citrus bud mite*

*Citrus leafminer*

*Citrus rust mite*

*Citrus thrips*

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 1.0 – 2.0 fl oz/100 gal for all insects (except Asian citrus psylla, citrus leafminers and citrus thrips—use the concentrate spray rate)</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage (outside coverage for Asian citrus psylla, citrus</p>	<p>Do not apply by air.</p> <p>Do not apply more than 40 fl oz/A Abamectin 0.15EC per growing season.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Concentrate Sprays<sup>b, c</sup>: 10 – 20 fl oz/A for all listed insects/mites</p> <p><b>And add (for best results) a</b> Horticultural Spray Oil that is not a dormant oil - 0.20% or 1 gal/A (see footnotes for additional rates)<sup>c</sup></p>	<p>leafminer or citrus thrips). The size and number of trees per acre as well as foliage density will determine the gallons of spray required.</p> <p><b>Asian citrus psylla:</b> Applications made in the spring, summer or fall should be directed at newly expanding foliage and will only control adults and nymphs present at the time of application.</p> <p><b>Mites:</b> Applications made in the spring, summer or fall should be made when mites first appear.</p> <p><b>Citrus bud mite:</b> Time application to occur at "bud swell".</p> <p><b>Citrus leafminer:</b> Applications in the spring, summer or fall should be directed at newly expanding foliage.</p> <p><b>Citrus thrips:</b> Correct timing is required. Apply after egg hatch has begun (typically, early to mid-hatch is best) but only the current generation will be controlled.</p>	<p>Do not apply more than 3 applications per growing season 30 days or more apart.</p> <p>To prevent pest resistance to Abamectin 0.15EC, do not apply in citrus nurseries.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 7 days</p>

<sup>a</sup> Dilute Spray Rate is based on a volume of 1,000 gal/A dilute spray.

<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC that would be required in a full cover dilute spray.

<sup>c</sup> For optimum control of **Asian citrus psylla**, **broad mites**, **citrus rust mites** and **citrus leafminers**, apply 150-300 gals spray mix per acre plus a minimum of 3 gal/A of a horticultural oil (not a dormant oil) and apply using ground equipment at 1 to 1.5 miles per hour. For optimum control of **citrus bud mite**, apply Abamectin 0.15EC in a minimum of 500 gal per acre plus a minimum of 2 qts. (0.5%) per acre of a horticultural oil (not a dormant oil). For optimum control of **citrus thrips**, use 100-250 gal per acre spray mix for best coverage of outside foliage.

**Spray Drift Precautions:** Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:

- Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas
- Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
- Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.
- Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.
- Do not apply during a temperature inversion.

#### COTTON – WEST OF THE MISSISSIPPI ONLY

Abamectin 0.15EC will control the following pests in cotton (**West of the Mississippi Only**):

*Carmine spider mites*

*Pacific spider mites*

*Strawberry spider mites*

*Twospotted spider mites*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>Early season: 4 – 6 fl oz/A</p> <p>Mid-season/Lay-by: 8 – 16 fl oz/A</p>	<p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage.</p> <p>Control of mites requires a thorough coverage of the spray solution on the crop foliage.</p> <p><b>Early season:</b> Apply Abamectin 0.15EC when the cotton is no taller than 10 inches. Apply only using ground application equipment. Do not apply less than 4 fl oz Abamectin 0.15EC per acre.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply through any type of irrigation system.</p> <p>Do not apply Abamectin 0.15EC east of the Mississippi River.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p><b>Mid-season and lay-by:</b> Use Abamectin 0.15EC at the specified rates 8 - 16 fl oz/A) depending on the size of the plants and foliage density. Apply using ground application or by air in fixed-wing aircraft or by helicopter. Apply by air in a minimum of 5 gal of water /A.</p> <p>Time Abamectin 0.15EC applications to occur when mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Do not apply more than 32 fl oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not feed foliage to livestock; do not allow livestock to graze treated cotton.</p> <p>Preharvest Interval: 20 days</p>

#### CUCURBITS CROP GROUP

Abamectin 0.15EC will control the following pests in the Cucurbit Crop Group (which includes but is not limited to citron melon, cucumbers, gherkin, edible gourds (includes hyotan, cucuzza, hechima, Chinese okra); *Momordica* spp. (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon, cantaloupe, pumpkin, summer squash, winter squash (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); and watermelon):

*Spider mites*

*Leafminers*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A	Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best	Refer to the section on Spray Drift Precautions in the Application Information section of this label.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>control of insect pests is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.</p> <p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p> <p>Time Abamectin 0.15EC applications to occur when insects first appear. Use 8 – 12 fl oz/A for low to moderate insect pressure use 16 fl oz/A for heavy insect infestations. Repeat applications following the directions in the Restrictions column of this table.</p>	<p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 48 fl. oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart.</p> <p>Preharvest Interval: 7 days</p>



### FRUITING VEGETABLE CROP GROUP

Abamectin 0.15EC will control the following pests in the Fruiting Vegetable Crop Group (which includes but is not limited to tomato; eggplant; peppers (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); and tomatillo):

*Broad mite*

*Colorado potato beetle*

*Liriomyza leafminers*

*Spider mites*

*Thrips palmi*

*Tomato pinworm*

*Tomato russet mite*

*Potato psyllid (peppers only; provides suppression only)*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>8 – 16 fl oz/A (use the 16 fl oz/A rate for tomato pinworm)</p> <p><b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker-type surfactants).</p>	<p>Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 48 fl. oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart.</p> <p>To prevent insect resistance to Abamectin 0.15EC, do not apply to fruiting vegetables grown for transplants.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p> <p>Repeat applications following the directions in the Restrictions column of this table.</p> <p><b>Mites and thrips :</b> Apply when insects first appear using 8 fl oz for low to moderate insect populations and 16 fl oz/A for heavy infestations.</p> <p><b>Tomato pinworm:</b> Make application when moth activity is first observed and not later than when larvae emerge. Apply using the 16 fl oz/A rate.</p> <p><b>Colorado potato beetle:</b> Apply 8 fl oz for low to moderate insect populations and 16 fl oz/A for heavy infestations.</p> <p><b>Potato psyllid (Peppers only):</b> Abamectin 0.15EC provides suppression only. Apply when insects first appear. Use 8 – 12 fl oz for low to moderate insect populations and 16 fl oz/A for</p>	<p>Preharvest Interval: 7 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	insect populations and 16 fl oz/A for heavy infestations. Make sequential applications at 10-14 day intervals when heavy egg and nymph populations are found. Use of a spreading or penetration adjuvant or horticultural oil is recommended.	

#### GRAPES

Abamectin 0.15EC will control the following pests in grapes:

*Pacific spider mite*

*Twospotted spider mite*

*Western grapeleaf skeletonizer*

*Willamette spider mite.*

*Western grape leafhopper\**

*Variegated leafhopper\**

\*Abamectin 0.15EC provides knock-down control only of these pests.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A  <b>PLUS</b> a nonionic type surfactant is recommended (not binder or sticker-type surfactants).	Apply Abamectin 0.15EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage. Do not spray alternate rows: apply Abamectin 0.15EC on both sides of the row to ensure maximum coverage of the crop.	Refer to the section on Spray Drift Precautions in the Application Information section of this label.  Do not apply by air.  Do not apply more than 16 fl oz/A per application or more than 32 fl. oz/A Abamectin 0.15EC per growing season.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Do not apply in less than 50 gal of water/A by ground. If electro-static sprayers are used, the volume may be less than 50 gal/A but do not use less than 5 gal of water/A.</p> <p>Always use Abamectin 0.15EC with a nonionic surfactant. This combination improves the wetting of leaves and provides an even coverage of spray. Not all combinations of nonionic surfactants and Abamectin 0.15EC have been tested on every grapes variety or all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's label.</p> <p>Apply when insects first appear using 8 - 12 fl oz/A for low to moderate insect populations and 16 fl oz/A for heavy infestations. Repeat applications following the directions in the Restrictions column of this table.</p> <p><b>Mites:</b> time application to occur when mites are first detected but before motiles exceed 5 per leaf.</p>	<p>Make only 2 applications per growing season. One repeat application may be applied 21 day or more after the first application if needed to maintain control.</p> <p>Do not allow livestock to graze in treated vineyards.</p> <p>Preharvest Interval: 28 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<b>Western grapeleaf skeletonizer:</b> Make application when larvae appear. Best control is achieved if application is made just after egg hatch. <b>Western grape leafhopper, Varigated leafhopper:</b> For knock-down control only, apply when pests first appear.	

#### HERB CROP SUBGROUP (EXCEPT CHIVES)

Abamectin 0.15EC will control the following pests in the Herb Crop Subgroup (except chives) (which includes but is not limited to basil; chamomile; catnip; coriander (leaf); dill weed; lavender; marigold; marjoram (*Oiganum* species); nasturtium; parsley (dried); rosemary; sage; summer and winter savory; tarragon; thyme; and wintergreen):

##### *Liriomyza* leafminers

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A  <b>Note:</b> To improve the wetting of leaves and provide an even coverage of spray of the foliage, use Abamectin 0.15EC in combination with a wetting agent, such as a nonionic surfactant.	Apply Abamectin 0.15EC using conventional dilute or concentrate ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of leafminers requires a thorough coverage of the spray solution on the upper and lower leaves.  Do not apply in less than 30 gal of water/A by ground.	Do not apply by air.  Make only 2 applications per single cutting.  Do not apply more than 6 applications per cropping season at the 8 fl oz/A rate or more than 3 applications at the 16 fl oz/A rate.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Use the low rate for low to moderate insect pressure and the higher rate for heavy insect pressure. Time application to occur when adult flies are first detected. Repeat applications following the directions in the Restrictions column of this table.</p> <p>Not all combinations of nonionic surfactants and Abamectin 0.15EC have been tested on every herb types and variety or under all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's label.</p>	<p>Repeat applications may be made 7 days or more after the last application.</p> <p>Preharvest Interval: 14 days</p>

#### HOPS (EXCEPT IN CALIFORNIA)

Abamectin 0.15EC will control the following pests in hops (not approved for use in California):

##### *Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>8 – 16 fl oz/A</p> <p>Note: Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better</p>	<p>Apply Abamectin 0.15EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of mites requires a thorough coverage of the spray solution on the upper and lower leaves of the crop.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply by air.</p> <p>Make only 2 applications per season.</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
insect control is achieved using a combination of Abamectin 0.15EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker-type surfactants).	<p>The size and foliage density of plants will determine the gallons of spray required for thorough coverage. Use the same amount of Abamectin 0.15EC for concentrate or dilute sprays. For plants 6 – 8 feet in height (1/2 trellis growth), apply 8 – 16 fl oz/A of Abamectin 0.15EC in a minimum of 40 gal of water per acre. For plants taller than 6-8 feet, do not use less than 16 fl oz/A in a minimum of 100 gal of water/A.</p> <p>Time application to occur when mites are first detected. One repeat application may be made following the directions in the Restrictions column of this table.</p>	<p>Do not apply more than 32 fl oz/A per growing season.</p> <p>Repeat applications may be made 21 days or more after the last application. To prevent insect resistance, use other miticides with different modes of action before making a repeat application of Abamectin 0.15EC.</p> <p>Do not allow livestock to graze in treated hop yards.</p> <p>Preharvest Interval: 28 days</p>

#### LEAFY VEGETABLE CROP GROUP

Abamectin 0.15EC will control the following pests in the Leafy Vegetable Crop Group (which includes but is not limited to celery, lettuce (head and leaf), amaranth (Chinese spinach), garden cress, upland cress, dandelion, endive, fennel, parsley, radicchio, rhubarb, spinach, and Swiss chard):

*Carmine spider mite*  
*Liriomyza leafminers*  
*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>8 – 16 fl oz/A</p> <p><b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and a surfactant. Nonionic type surfactants are recommended (not binder or sticker-type surfactants).</p>	<p>Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.</p> <p>Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage. Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).</p> <p>Apply Abamectin 0.15EC at 8 – 12 fl oz/A for low to moderate insect populations and at 16 fl oz/A for heavy infestations. Make repeat applications if needed to maintain control according to the Restrictions column of this table.</p>	<p>Refer to the section on Spray Drift Precautions in the Application Information section of this label.</p> <p>Do not apply Abamectin 0.15EC by air in the State of New York.</p> <p>Do not apply more than 48 fl oz/A Abamectin 0.15EC per growing season.</p> <p>Make only 2 sequential applications 7 days or more apart. To prevent insect resistance to Abamectin 0.15EC, do not apply to leafy vegetables grown for transplants.</p> <p>Preharvest Interval: 7 days</p>



Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<b>Mites:</b> Apply when insects first appear. <b>Leafminers:</b> Time application to occur when adult flies are first detected.	

#### MINT (PEPPERMINT AND SPEARMINT)

Abamectin 0.15EC will control the following pests in peppermint and spearmint:

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 12 fl oz/A  <b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and either a nonionic surfactant or organosilicone-based surfactant at the manufacturer's recommended use rates.	Apply Abamectin 0.15EC using ground or air application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.  Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures).	Do not apply Abamectin 0.15EC by air in the State of New York. Do not apply more than 12 fl oz/A Abamectin 0.15EC per application or more than 36 fl oz/A per growing season. Make only 2 sequential applications 7 days or more apart. Do not apply more than 3 applications per season. Do not allow livestock to graze or feed treated foliage to livestock. Preharvest Interval: 28 days

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	Time applications to occur when insects first appear. Make repeat applications if needed to maintain control according to the Restrictions column of this table.	

#### PEARS (INCLUDING ORIENTAL PEARS)

Abamectin 0.15EC will control the following pests in pears and Oriental pears:

*European red mite*

*McDaniel spider mite*

*Pear psylla*

*Pear rust mite*

*Twospotted spider mite*

*Yellow mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>And add (for best results)</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage.</p>	<p>Do not apply by air.</p> <p>Reduced efficacy and/or residual control may occur if Abamectin 0.15EC is not applied with a horticultural spray oil (not a dormant oil). Follow all directions on the spray oil label or spray guides. In some cases, phytotoxicity and crop loss has been observed when Abamectin 0.15EC plus a</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
For Concentrate Sprays: Minimum of 1 gal/A	Time Abamectin 0.15EC applications to occur when spider mites first appear or when insect thresholds are reached. Repeat applications following the directions in the Restrictions column of this table.	horticultural spray oil was applied in less than 14 days before or after a captan application. Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz per growing season. Make only 2 applications per growing season 21 days or more apart. Do not allow livestock to graze in treated orchards. Preharvest Interval: 28 days
<sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.		
<sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.		
<b>Spray Drift Precautions:</b> Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms: <ul style="list-style-type: none"> <li>• Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas</li> <li>• Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.</li> <li>• Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.</li> <li>• Do not apply within 110 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.</li> <li>• Do not apply during a temperature inversion.</li> </ul>		

## PLUMS AND PRUNES

Abamectin 0.15EC will control the following pests in plums and prunes:

*European red mite*

*Pacific spider mite*

*Twospotted spider mite*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>For Dilute Sprays<sup>a</sup>: 2.5 – 5.0 fl oz/100 gals</p> <p>For Concentrate Sprays<sup>b</sup>: 10 – 20 fl oz/A</p> <p><b>PLUS</b></p> <p>A Horticultural Spray Oil that is not a dormant oil</p> <p>For Dilute Sprays: 0.25% or 1 gal/A</p> <p>For Concentrate Sprays: Minimum of 1 gal/A</p> <p><b>OR</b></p> <p>Nonionic surfactant (at the manufacturer's recommended label rate).</p>	<p>Apply Abamectin 0.15EC using conventional dilute or concentrate sprays using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. The size and number of trees per acre as well as foliage density will determine the gallons of spray required. Apply only in 40 gal or more of water/A. Control of these mites/insects requires a thorough coverage of the spray solution on the tree foliage.</p> <p>Always use Abamectin 0.15EC with either a nonionic surfactant or a horticultural spray oil (not a dormant oil). The combination of Abamectin 0.15EC and the nonionic surfactant helps to provide an even coverage of spray on the foliage and to improve the wetting and penetration of leaves for better insect control. Not all combinations of</p>	<p>Do not apply by air.</p> <p>Do not apply more than 20 fl oz/A Abamectin 0.15EC per application, and no more than 40 fl oz per growing season.</p> <p>Make only 2 applications per growing season 21 days or more apart.</p> <p>Do not allow livestock to graze in treated orchards.</p> <p>Preharvest Interval: 21 days</p>

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>nonionic surfactants and Abamectin 0.15EC have been tested on every plum/prune variety or under all types of growing conditions. Before using a nonionic surfactant, carefully read and follow the surfactant product's label.</p> <p>Efficacy may be improved with a combination of Abamectin 0.15EC and a horticultural spray oil (not a dormant oil). However, the chances of phytotoxicity to fruit and foliage increase with this combination. Apply at the specified rates in this table.</p> <p>Time Abamectin 0.15EC applications to occur when mites first appear. Repeat applications following the directions in the Restrictions column of this table.</p>	
<p><sup>a</sup> Dilute Spray Rate is based on a volume of 400 gal/A dilute spray.</p> <p><sup>b</sup> Concentrate Spray Rate: determine the amount of Abamectin 0.15EC required in a full cover dilute spray. Then use the same amount of product per acre in concentrate sprays that would be required for the dilute sprays to the same orchard/grove. Note that for small trees, the amount may be less than 10 fl oz/A.</p>		
<p><b>Spray Drift Precautions:</b> Observe the following precautions when spraying in the vicinity of aquatic areas such as lakes, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farms:</p> <ul style="list-style-type: none"> <li>• Spray last 3 rows upwind of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas</li> </ul>		

- Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove/orchard when spraying the outside row. Shut off nozzles when turning at ends of row and passing tree gaps in rows.
- Do not apply Abamectin 0.15EC when weather conditions favor drift to aquatic areas.
- Do not apply within 100 feet upwind of aquatic areas or when wind speed is above 8 miles per hour.
- Do not apply during a temperature inversion.

### POTATOES

Abamectin 0.15EC will control the following pests in potatoes:

*Colorado potato beetle*

*Liriomyza leafminers*

*Spider mites*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
8 – 16 fl oz/A <b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and either a nonionic surfactant or organosilicone-based surfactant at the manufacturer's recommended use rates.	Apply Abamectin 0.15EC using ground or air application equipment. Although aerial application is permitted, best control of mites is achieved with ground applications which proved better spray coverage. The user accepts all liability for mite level and duration of control if Abamectin 0.15EC is applied by air.  Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites/insects requires a thorough coverage of the spray solution on the crop foliage.	Refer to the section on Spray Drift Precautions in the Application Information section of this label.  Do not apply Abamectin 0.15EC by air in the State of New York.  Do not apply more than 32 fl oz/A Abamectin 0.15EC to control spider mites, more than 48 fl oz/A to control Colorado potato beetle, or more than 48 fl oz/A to control leafminers.

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
	<p>Do not apply in less than 20 gal of water/A by ground and in less than 5 gal of water by air application. To ensure thorough spray coverage, use a greater spray volume for high pest pressure, dense crop canopies, and adverse application conditions (high temperatures). Use of Abamectin 0.15EC in combination with a sticker or binder type product such as Bravo® Weather Stik® may reduce control of insects and spider mites.</p> <p>Apply Abamectin 0.15EC at 8 – 12 fl oz/A for low to moderate insect populations and at 16 fl oz/A for heavy infestations. Make repeat applications if needed to maintain control according to the Restrictions column of this table.</p> <p><b>Spider mites:</b> Time applications to occur when insects are first detected.</p> <p><b>Colorado potato beetle:</b> Apply Abamectin 0.15EC when about 50% of the egg masses have hatched and the larvae or present. When 2 applications are required, do not make the second application to the same Colorado potato beetle generation.</p> <p><b>Liriomyza leafminers:</b> Time application to occur when adult flies are first detected.</p>	<p>Make only 2 sequential applications 7 days or more apart.</p> <p>Do not allow livestock to graze or feed treated foliage to livestock.</p> <p>Preharvest Interval: 14 days</p>

## STRAWBERRIES

Abamectin 0.15EC will control the following pests in strawberries:

*Strawberry spider mite*

*Twospotted spider mite.*

Rate of Abamectin 0.15EC	Directions for Application	Restrictions
<p>16 fl oz/A</p> <p><b>Note:</b> Although Abamectin 0.15EC can be used without a wetting agent, improved spreading and penetration for better insect control is achieved using a combination of Abamectin 0.15EC and a nonionic surfactant at the manufacturer's recommended use rate.</p>	<p>Apply Abamectin 0.15EC using ground application equipment. Calibrate equipment prior to application to ensure sufficient water is used for thorough coverage. Control of these mites requires a thorough coverage of the spray solution on the crop foliage. Apply Abamectin 0.15EC to the tops and undersides of the leaves.</p> <p>Do not apply in less than 50 gal of water/A by ground. If electro-static sprayers are used, the volume may be less than 50 gal/A but do not use less than 10 gal of water/A.</p> <p>Apply Abamectin 0.15EC when mites are first detected. A second repeat application may be made 7 – 10 days later. This sequence of two applications may be repeated if needed but follow the directions in the <b>Restrictions</b> column of this table.</p>	<p>Refer to the section on <b>Spray Drift Precautions</b> in the Application Information section of this label.</p> <p>Do not apply by air.</p> <p>Do not apply more than 16 fl oz/A per application or more than 64 fl oz/A Abamectin 0.15EC per growing season.</p> <p>After the first 2 applications, wait 21 day or more before making additional applications if needed to maintain control.</p> <p>To prevent insect resistance to Abamectin 0.15EC, do not apply in strawberry nurseries.</p> <p>Preharvest Interval: 3 days</p>



#### **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

##### **Pesticide Storage**

Store in a tightly closed container in a cool, dry place.

##### **Pesticide Disposal**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

##### **Container Disposal**

Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures allowed by State or local authorities.

#### **WARRANTY STATEMENT IMPORTANT NOTICE**

Seller warrants that this product conforms to the chemical description and is reasonably fit for purposes stated on the label when used in accordance with the directions and instructions under normal conditions of use; but to the extent consistent with applicable law neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

**Inherent Risks of Use**

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Source Dynamics LLC or the seller. All such risks shall be assumed by buyer.

**Terms and Conditions of Use**



If terms of the Limited Warranty & Disclaimer and Inherent Risks of Use are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer and Inherent Risks of Use.



EPA 82542-RR Abamectin .15EC AG  
Erik Brandt to: Autumn Metzger

Resubmission  
S8 46815

02/23/2009 11:16 AM

Sender	Date	Subject
 Erik Brandt	02/23/2009 11:16 AM	 EPA 82542-RR Abamectin .15EC AG

Dear Ms. Metzger,

Mr. Rufus Bastian is out this week and in his absence I am correspondence requiring immediate attention. Please find attached the revised label for Source Dynamics EPA 82542-RR Abamectin .15 EC AG as requested. Please let me know if there is any further information needed. Thank you,

Erik Brandt  
Source Dynamics, LLC






(928) 941-1822 Abamectin 0.15EC Ag Label SD 090219.pdf

**EPA Reg No. 82542-RR Abamectin .15EC AG**

Autumn Metzger to: rbastianllc

02/18/2009 08:03 AM

Sender	Date	Subject
 Autumn Metzger	02/18/2009 08:03 AM	 EPA Reg No. 82542-RR Abamectin .15E
 Rufus Bastian	02/19/2009 11:53 AM	Re: EPA Reg No. 82542-RR Abam

Hello Mr. Bastian,

Attached are the Agency's label comments for EPA Reg No. 82542-RR Abamectin .15EC AG Insecticide/Miticide. We are trying to stamp off on "clean" labels, so if you could make the requested changes and email me back a copy of the revised label in a pdf format (in a font sized 10-12) I will stamp "without comments."

Also note, many of the changes needed are to make the label language more definitive, therefore the label may be a bit different from how the parent labels' read.

Thanks so much!

Autumn Metzger  
Biologist  
U.S. Environmental Protection Agency  
Insecticide-Rodenticide Branch  
Registration Division (7505P)  
1200 Pennsylvania Ave. NW  
Washington, DC 20460

Tel: 703 305-5314  
Fax: 703 308-5433  
Email: metzger.autumn@epa.gov



82542-RR 100% Repack label comments.doc

82542-RR  
100% Repack  
Abamectin .15EC Ag Insecticide/Miticide

#### Label Comments

1. On page 1, after "Net Contents," revise "See Container" to read the measurement units the product will be packaged in, i.e. lbs, fl oz, etc.
2. On page 1, under the company's address, add the company phone number for non-emergency questions.
3. On page 5, move the "Directions for Use" heading and the paragraph below it: "It is a violation..." and the heading and section: "Important – Read Before use" to page 4, directly below the "Physical or Chemical Hazards" section and above the "Agricultural Use Requirements" sections as directed in the Label Review Manual.
4. On page 5, revise the heading "General Information," to read "Application Information" since the information following is mandatory.
5. On page 5, in the section of the revised title "Information," revise the last sentence in the first paragraph to read: "For good mite and insect control, apply Abamectin .15EC so that the foliage is thoroughly covered by the spray solution."
6. On pages 7-33, in the "Restrictions" section of the crop use tables, add "/A" or "per acre" after every maximum use statement so they read: "Do not apply more than ... fl oz/A Abamectin .15EC per application and no more than ... fl oz/A per growing season."
7. On pages 12-33, in the "Restrictions" section of the crop use tables, revise all statements that read: "Refer to the section on Spray Drift Precautions in the General Information section of this label" to read "Refer to the section on Spray Drift Precautions in the Application Information section of this label."
8. On page 21, in the third paragraph of the middle section of the table, revise the first sentence to read: "Apply when insects first appear using 8-12 fl oz/A..."
9. On page 30, in the middle section of the crop table, revise the last sentence in the second paragraph to read: "Apply at the specified rates..." since rates are mandatory.
10. On page 34, in the "Warranty Statement" add the statement "to the extent consistent with applicable law" right after the semicolon, before "but neither this warranty nor any other warranty..."

# PRIA 2 - 21 Day Content Screen Review Worksheet

(EPA/OPP Use Only) 4/9/08

21 Day Screen Start Date: 12/3/08

Date: 12/11/08

Experts In-Processing Signature: [Signature]

Fee Paid: Yes ☐

Division management contacted on issues No ☐ Yes ☐

Date                     

EPA Reg. Number: <u>82542-PR</u>		EPA Receipt Date: <u>12/3/08</u>				
Items for Review			Yes	No	N/A*	
1	<b>Application Form</b> (EPA Form 8570-1) signed & complete including package type			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Confidential Statement of Formula all boxes completed, form signed, and dated (EPA Form 8570-4)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) All inerts, except fragrances, approved for food and non food proposed uses (see Footnote A)	Yes <input type="checkbox"/>	No <input type="checkbox"/>			
3	<b>Certification with Respect to Citation of Data</b> (EPA Form 8570-34) completed and signed (N/A if 100% repack)			<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Certificate and data matrix consistent			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If applicant is relying on data that are compensable, is the offer to pay statement included. (see Footnote B)	Yes <input type="checkbox"/>	No <input type="checkbox"/>			
	If applicable, is there a letter of Authorization for exclusive use only.			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<b>Formulator's Exemption Statement</b> (EPA Form 8570-27) completed and signed (N/A if source is unregistered or applicant owns the technical)			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<b>Data Matrix</b> (EPA Form 8570-35) both internal and external copies (PR 98-5) completed and signed (N/A if 100% repack)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) Selective Method (Fee category experts use)	Yes <input type="checkbox"/>	No <input type="checkbox"/>			
	b) Cite-All (Fee category experts use)	<input type="checkbox"/>	<input type="checkbox"/>			
	c) Applicant owns all data (Fee category experts use)	<input type="checkbox"/>	<input type="checkbox"/>			
6	<b>5 Copies of Label</b> (Electronic labels on CD are encouraged )			<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<b>Is the data package consistent with PR Notice 86-5</b>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Notice of Filing (link to included with petitions)			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

100% repack

9	If applicable for conventional applications, reduced risk rationale	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	Required Data and/or data waivers. See Footnote C.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	a) List study (or studies) not included with application			
<b>Comments:</b> <div style="display: flex; justify-content: space-between;"> <div><i>Date Start:</i></div> <div><i>Date End:</i></div> </div>				

\* N/A - Not Applicable

#### Footnotes

A. This consideration does not apply to PRIA applications that include a request to approve an inert in the fee category. For these PRIA actions, information needs to be submitted to enable the Agency to review the inert approval request and will be a subject of the 21 day content screen. For other types of actions and for fragrances, the answer is only for the Agency's information and current policies, processes, and procedures should be consulted. This worksheet will be updated in the future to be consistent with current policies.

If brand, trade, or proprietary names are being used for some inert ingredients listed on the CSF, alternate names or additional information on the nature of the ingredient(s) should be provided to allow the Agency to determine whether the inert has been approved.

B. A policy on documentation of offers to pay is still being developed, however, for a me-too or fast track (similar/identical) new product, R300 or A530, an application without the necessary authorizations of offers to pay will be placed into either R301 or A531. The Agency recommends that authorizations of offers to pay be submitted with other PRIA applications to avoid delays in the Agency's decision.

C. Refer to the list of data requirements. Biopesticide applicants were advised to contact the Agency and discuss study waivers prior to submitting their application to the Agency. Documentation of such discussions should be submitted with the study waiver.



## Fee for Service

841125z~

This package includes the following

- ☒ New Registration
- ☐ Amendment

☐ Studies? ☒ Fee Waiver?

☐ volpay % Reduction: \_\_\_\_\_

for Division

- ☐ AD
- ☐ BPPD
- ☒ RD

Risk Mgr.

7

Receipt No.

S-

841125

EPA File Symbol/Reg. No.

82542-RR

Pin-Punch Date:

12/3/2008

☐ This item is NOT subject to FFS action.

### Action Code:

Requested: R300

Granted: R300

Amount Due: \$ 1,365

### Parent/Child Decisions:

☒ Inert Cleared for Intended Use

☐ Uncleared Inert in Product

Reviewer: Tomplan

Date: 12/4/08

Remarks:



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

December 4, 2008

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

PLEASE RETURN A COPY OF THIS LETTER WITH PAYMENT  
Or Pay On-Line at [www.Pay.Gov](http://www.Pay.Gov) (See Below for Details)

OPP Decision Number: D-403548  
EPA File Symbol or Registration Number: 82542-RR  
Product Name: ABAMECTIN 0.15EC AQ INSECTICIDE/MITICIDE  
EPA Receipt Date: 03-Dec-2008  
EPA Company Number: 82542  
Company Name: SOURCE DYNAMICS, LLC

RUFUS BASTIAN  
SOURCE DYNAMICS, LLC  
10039 E. TROON NORTH DRIVE  
SCOTTSDALE, AZ 85262-

SUBJECT: Receipt of Registration Application Subject to Registration Service Fee

Dear Registrant:

The Office of Pesticide Programs has received your application for registration. If you submitted data with this application, the results of the PRN-86-5 screen will be communicated separately. During the administrative screen, the Office of Pesticide Programs has determined that this Action is subject to a Pesticide Registration Service Fee as defined in the Pesticide Registration Improvement Act.

The Action has been identified as Action Code: R300

NEW PRODUCT;ME-TOO PRODUCT FAST TRACK;

Please remit payment in the amount of: \$65 (\$1,365 fee minus \$1,300 previously paid) to:

By USPS:  
USEPA Washington Finance Center  
Pesticide Registration Service Fee  
PO Box 979074  
St. Louis, MO 63197-9000

By Courier:  
U.S. Bank  
Government Lockbox 979074  
1005 Convention Plaza  
SL-MO-C2-GL  
St. Louis, MO 63197  
Telephone: (412) 236-2294

All payments must be in United States currency by check, bank draft, or money order drawn to the order of the Environmental Protection Agency. To ensure proper credit, please write the OPP DECISION NUMBER on your check, and enclose a copy of this letter with your payment.

Effective November 1, 2006, fees may be paid on-line via credit card or electronic fund transfer. To submit a payment on-line, visit [www.pay.gov](http://www.pay.gov). From the pay.gov home page, select "search by form name." From the next page, select "P," then click on "Pesticide Registration Improvement Act. Fee Payment" and complete the form, making certain to use the decision number and registration number on the invoice you receive from the Pesticide Program in the space provided.

You may be eligible for a partial waiver of the registration service fee if, for example, you qualify as a small business or are applying for a minor use, or if your application is solely associated with an IR-4 tolerance petition. Please be advised that if you intend to request a waiver, you must do so in writing within 15 days of receipt of this invoice instead of remitting the amount indicated above. OPP will not consider waiver requests after the registration service fee has been paid. Information regarding eligibility and how to request and document a fee waiver is available on the OPP Fee for Service web site at [www.epa.gov/pesticides/fees](http://www.epa.gov/pesticides/fees).

Please send Registration Service Fee Waiver requests to:

By USPS:  
Document Processing Desk (WAIVER)  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
1200 Pennsylvania Ave NW  
Washington, DC 20460

By Courier:  
Document Processing Desk (WAIVER)  
Office of Pesticide Programs (7504C)  
U.S. Environmental Protection Agency  
Room S4900 Potomac Yard 1  
2777 S. Crystal Dr.  
Arlington, VA 22202

A PRIA decision time review period will not start until a fee waiver is granted and/or the Agency receives certification that the outstanding fee has been paid. If the Agency does not receive certification of payment for this action or a fee waiver request within the next 30 days, the Agency will presume that you no longer want to pursue this action. The Agency will then initiate a process that may result in administrative withdrawal of this action.

If you have any questions, please contact the Pesticide Registration Service Fee Ombudsman at (703) 305-6249.

Sincerely,

A handwritten signature in cursive script that reads "Teresa Downs".

Front End Processing Staff  
Information Technology & Resources Management Division

# **FEE FOR SERVICE**

From: [paygovadmin@mail.doc.twai.gov](mailto:paygovadmin@mail.doc.twai.gov) [<mailto:paygovadmin@mail.doc.twai.gov>]  
Sent: Wednesday, November 26, 2008 10:42 AM  
To: [tstojic@solerasd.com](mailto:tstojic@solerasd.com)  
Subject: Pay.Gov Payment Confirmation

**Your transaction has been successfully completed.**

Application Name: PRIA Service Fees  
Pay.gov Tracking ID: 24V4B9M8  
Agency Tracking ID: 74059196218

Decision Number:  
Registration Number: 8570-1

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 104





November 24, 2008

Document Processing Desk (APPL)  
Office of Pesticide Programs (P7504P)  
Environmental Protection Agency  
Room S-4900, One Potomac Yard (South Building)  
2777 S. Crystal Drive  
Arlington, VA 22202

Attn: Thomas Harris (PM 7)

Dear Mr. Harris:

Subject: Abamectin 0.15EC Ag Insecticide/Miticide: Registration Application

Source Dynamics LLC wishes to apply for the registration of a new end-use product, Abamectin 0.15 EC Ag Insecticide/Miticide. This is a 100% repack of a registered product. In support of this application we have enclosed the following:

Application for Pesticide Registration (8570-1)  
Confidential Statement of Formula (8570-4)  
Formulators Exemption Statement (8570-27)  
Proposed label (6 copies)

We have concluded that this regulatory action falls in PRIA II Category R300, for which a fee of \$1300 is required. Documentation of payment is provided.

Thank you for your consideration of this project. Please contact me if you have any questions.

Sincerely,

Rufus Bastian, President  
Source Dynamics LLC  
rbastianllc@cox.net

10039 E. Troon North Drive  
Scottsdale, AZ 85262

Tel. 480.502.9289

91  
Fax 480.502.9268





FILE SYMBOL	82542-KR
REGISTRATION NO.	

**Do Not Write Comments,  
Formula, or Parts of Formula  
on This Envelope**

It shall be unlawful—for any person to use for his own advantage or to reveal, other than to the Secretary, or officials or employees of the United States Department of Agriculture or other Federal agencies, or to the courts in response to a subpoena, or to physicians, and in emergencies to pharmacists and other qualified persons, for use in the preparation of antidotes, in accordance with such directions as the Secretary may prescribe, any information relative to formulas of products acquired by authority of Section 4 of the "Federal Insecticide, Fungicide, and Rodenticide Act."

**RE FORM 9-11  
MARCH 2008**

